



10 30 50
GCTCACCAAAATGGTCGTCGACAAGAATGCCTCCGGGCTTCGAATGAAGGTCGATGGCAA
M V V D K N A S G L R M K V D G K

70 90 110
ATGGCTCTACCTTAGCGAGGAATTGGTGAAGAAACATCCAGGAGGAGCTGTTATTGAACA
W L Y L S E E L V K K H P G G A V I E Q

130 150 170
ATATAGAAATTCGGATGCTACTCATATTTCCACGCTTCCACGAAGGATCTTCTCAGGC
Y R N S D A T H I F H A F H E G S S Q A

190 210 230
TTATAAGCAACTTGACCTTCTGAAAAAGCACGGAGAGCACGATGAATTCCTTGAGAAACA
Y K Q L D L L K K E G E H D E F L E K Q

250 270 290
ATTGGAAAAGAGACTTGACAAAGTTGATATCAATGTATCAGCATATGATGTCAGTGTTGC
L E K R L D K V D I N V S A Y D V S V A

310 330 350
ACAAGAAAAGAAAATGGTTGAATCATTGAAAACTACGACAGAAGCTTCATGATGATGG
Q E K K M V E S F E K L R Q K L H D D G

370 390 410
ATTAATGAAAGCAAATGAAACATATTTCTGTTTAAAGCGATTTC AACACTTTCAATTAT
L M K A N E T Y F L F K A I S T L S I M

430 450 470
GGCATTTCATTTTATCTTCAGTATCTTGGATGGTATATTACTTCTGCATGTTTATTAGC
A F A F Y L Q Y L G W Y I T S A C L L A

490 510 530
ACTTGCATGGCAACAATTCGGATGGTTAACACATGAGTTCTGCCATCAACAGCCAACAAA
L A W Q Q F G W L T H E F C H Q Q P T K

FIG. 1A

550	570	590
GAA CAG ACC TTT GAAT GATA CTAT TTT CTT GTT CTT TGG TAAT TTT CTT ACA AGG ATTT TC		
N R P L N D T I S L F F G N F L Q G F S		
610	630	650
AAG AGAT TGG TGG AAG GACA AGC ATA ACA CT CAT CAC GCT GCC ACA ATG TAAT TGAT CA		
R D W W K D K H N T H H A A T N V I D H		
670	690	710
TGAC GGT GAT ATC GACT TGG CAC CACT TTT CGC ATTT ATT CCAG GAG ATTT GTG CAAG TA		
D G D I D L A P L F A F I P G D L C K Y		
730	750	770
TAAG GCC AGC TTT GAAAA AGCA ATT CTCA AGAT TGT ACC ATAT CAAC ATCT CTAT TTT CAC		
K A S F E K A I L K I V P Y Q H L Y F T		
790	810	830
CGCA ATG CTT CCA ATG CTCC GTTT CTC ATG GACT GGT CAG TCAG TTCA ATGG GTATT CAA		
A M L P M L R F S W T G Q S V Q W V F K		
850	870	890
AGa GAAT CAA ATGG AGT ACA AGGT CTAT CAA AGAA ATGC ATT CTGG GAG CAAG CAACA AT		
E N Q M E Y K V Y Q R N A F W E Q A T I		
910	930	950
TGT TGG ACAT TGG GCT TGG GTATT CTAT CAA TTG TTCT TATT ACC AAC ATGG CCA CTTCG		
V G H W A W V F Y Q L F L L P T W P L R		
970	990	1010
GGT TGC TTAT TTT CATT ATTT CAC AAAT GGG AGG AGG CCT TTT GATT GCT CAC GTAG TCAC		
V A Y F I I S Q M G G G L L I A H V V T		

FIG. 1B

1030	1050	1070
TTTCAACCATAACTCTGTTGATAAGTATCCAGCCAATTCTCGAATTTTAAACAACCTTCGC		
F N H N S V D K Y P A N S R I L N N F A		
1090	1110	1130
CGCTCTTCAAATTTTGACCACACGCAACATGACTCCATCTCCATTGATTGGCTTTG		
A L Q I L T T R N M T P S P F I D W L W		
1150	1170	1190
GGGTGGACTCAATTATCAGATCGAGCACCACCTTGTTCCTCAACAATGCCACGTTGCAATCT		
G G L N Y Q I E H H L F P T M P R C N L		
1210	1230	1250
GAATGCTTGCGTGAAATATGTGAAAGAATGGTGCAAAGAGAATAATCTTCCTTACCTCGT		
N A C V K Y V K E W C K E N N L P Y L V		
1270	1290	1310
CGATGACTACTTTGACGGATATGCAATGAATTTGCAACAATTGAAAAATATGGCTGAGCA		
D D Y F D G Y A M N L Q Q L K N M A E H		
1330	1350	1370
CATTCAAGCTAAAGCTGCCTAAACAATCTGGGTGTTCAAAAAGTTTTTCTTGTTTTTTT		
I Q A K A A *		
1390	1410	1430
AAATTTAATTCTTTGAAATTATTTGTTTTCCGTCATTCTTCCTCCATTCCCTTTTCTGGT		
1450		
AGAAATAAAACCTTGTTTTTCAA		

FIG. 1C

FIG. 2A

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Mywormd6 Cew08d2	MYVVDKKNASGL MYVVDKKNASGL	RRKVDGKKWLY RRKVDGKKWLY	LSEELVKKKHP LSEELVKKKHP	GGAVIEQ... GGAVIEQYSI	...PPLNKNIE... ...PPLNKNIE...TR	GIITRGSN GIITRGSN	37 60
Mywormd6 Cew08d2	...YRN ALDILYFYRN	SDATHIFHAF SDATHIFHAF	HEGSSQAYKO HEGSSQAYKO	LDLLKKKHGEH LDLLKKKHGEH	DEFLEKQLEK DEFLEKQLEK	RLDKVDINVS RLDKVDINVS	90 120
Mywormd6 Cew08d2	AYDVSVVAQEK AYDVSVVAQEK	KHVESFEKLR KHVESFEKLR	QKLHDDGGLMK QKLHDDGGLMK	ANETVYFLFKA ANETVYFLFKA	ISTLSINAF... ISTLSINAF...	FYLOVYLGWYI FYLOVYLGWYI	150 180
Mywormd6 Cew08d2	TSACLLALAW TSACLLALAW	QQFGWLTHEF QQFGWLTHEF	CHQOPTKNRP CHQOPTKNRP	LNDTISLFFG LNDTISLFFG	NFLOGFSRDW NFLOGFSRDW	WKDKHNTHHA WKDKHNTHHA	210 240
Mywormd6 Cew08d2	ATNVVIDHDGD ATNVVIDHDGD	IDLAPLFAFI IDLAPLFAFI	PGDLCKYKAS PGDLCKYKAS	FEKATLKIVP FEKATLKIVP	YQHLYFTAML YQHLYFTAML	PM LRF:SWTGO PM LRF:SWTGO	270 300
Mywormd6 Cew08d2	SVQWVFEKENQ SVQWVFEKENQ	MEYKVYQRNA MEYKVYQRNA	FWEQATIVGH FWEQATIVGH	WAWVFYQLFL WAWVFYQLFL	LPTWPLRVAY LPTWPLRVAY	FTISQMGGL FTISQMGGL	330 360
Mywormd6 Cew08d2	LIAHVVTFNH LIAHVVTFNH	NSVDKYRANS NSVDKYRANS	RTLNFFAALO RTLNFFAALO	ILTTNRNTPS ILTTNRNTPS	PFIDWLWGGL PFIDWLWGGL	NYQIEHHLEF NYQIEHHLEF	390 420
Mywormd6 Cew08d2	TMPCR CNL NAC TMPCR CNL NAC	VKYVKEWCKE MKYVKEWCKE	NNLPYLVDY NNLPYLVDY	FDGYAMNLQO FDGYAMNLQO	LKNMAEHIOA LKNMAEHIOA	KAA • 443 KAA • 473	

b₅

boofd6 ceeld6	MAAQIKKXIT	SDELKNHDKP ...MVVDKNA	GDLEWISIQGK SGLRMKVDGK	AYDVS.DWVK WLYLSEELVK	DHPGGSFPLK KHPGGAV.IE	SLAQQEV.TDA QYRNSDATA	59 46
boofd6 ceeld6	FVAFHPAS.. FHAFHEGSSQ	TWKNLDKFF.. AYKQLDLKKK	...FTGYYLK HGEHDEFLEK	DY..... QLEKRLDKVD	..SVSEVS. INVSAYDVS	KDYRKLLVFEF AQEKMMVES	100 106
boofd6 ceeld6	SKMGLYDKKG EKLRLQKLHDD	HI.MPA..TLC GLMKANE.TYF	FIAMLFAMSV LPKAISTLSI	YGVLFCEGV MAFAFYLYL	VHLF.SGCLM GWYITSA	GFLWIOSGWI ALAWQOFGWL	157 166
boofd6 ceeld6	GHDAAGHYMVV THEFCIIQQPT	SDSRGNKFMG KNRPLNDTIS	IFAAANCLSGI LFFGNFLQGE	SIGWKKWNHN SRDWWKDKHN	AHHIACNSLE THHAATNVID	YDPLDQYIPF HGGDIDLAP.	217 225
boofd6 ceeld6	LVVSSKPFEGSLPAF	LTSHFYEKRL IPGDLCKYKA	TFDSLSRFFV SFEKAILKIV	SYQHWTIFYPI PYOHLIFYFTAM	MCAARLNMVY LPMLRFSWTG	QSLIMLLTKR OSVQWVFKEN	277 279
boofd6 ceeld6	NVSYRAHE.. QMEYKVYQRNLLG AFWEQATIVG	CLVFSIWWPL HMAW.VFYQL	LVSCLPNWWGE FL..LPTMPL	RIMFVIFASLS RVAYYFIISQM	VTGMQQVQ.F GGGLLIAHV	327 336
boofd6 ceeld6	SLMFPSSSVV TFWNNNSVDKY	VGKPKG.NNW PANSRIINN	FEXQTDGTL AALQIILTTRN	ISCPFMMDWF MTPSEFIDWL	HGGLOFOIEH WGGNLNYOIEH	HLPKMPRCN HLEPTMPRCN	386 396
boofd6 ceeld6	L RKISPWVITE LNACVKVKVKE	LCKKHNNLPYN WCKENNLPYL	YASF'SKANEM VDDYFDDGYAM	TLRTRLRNTA. NEQQLKNMAE	..LQARDITKP HIOAKAA*..	LPKNLVWEAL	444 443
boofd6 ceeld6	HTHG*448443						

FIG. 2B